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Technical
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British Standards Institution
Report

No. 103–1919.

British Engineering Standards Association.

(*Incorporated 1918.*)

FORMED IN 1901 AS THE ENGINEERING STANDARDS COMMITTEE

BY

THE INSTITUTION OF CIVIL ENGINEERS.
THE INSTITUTION OF MECHANICAL ENGINEERS.
THE INSTITUTION OF NAVAL ARCHITECTS.
THE IRON AND STEEL INSTITUTE.
THE INSTITUTION OF ELECTRICAL ENGINEERS.

BRITISH STANDARD SPECIFICATION FOR FALLING WEIGHT TESTING MACHINES FOR RAILS.

LONDON:
PUBLISHED FOR THE ASSOCIATION BY CROSBY LOCKWOOD & SON,
7, STATIONERS' HALL COURT, LUDGATE HILL, E.C. 4; AND 5, BROADWAY, LONDON, S.W. 1;
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June, 1919.

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This Specification was adopted by the Sectional Committee on Rails at their meeting on May 20th, 1919, *and approved on behalf of the Main Committee on May 30th,* 1919.

No. 103—1919.

NOTE.—*The Association desires to call attention to the fact that this Specification does not purport to include all the necessary provisions of a Contract.*

BRITISH
STANDARD SPECIFICATION
FOR
FALLING WEIGHT TESTING MACHINES
FOR
RAILS.

British Standard Falling Weight Testing Machines.

1. British Standard Falling Weight Testing Machines shall comply with the following Specification.

Timber and Springs in Foundations.

2. No timber or springs shall be permitted between the rail supports and the anvil or between the anvil and the foundation block.

Anvil Block.

3. The weight of the metal anvil block shall be not less than twelve tons and the area of the base not less than forty-five square feet.

Supports for Test Pieces.

4. The test pieces shall be supported on steel bearers having a radius of three inches and be so arranged that the blow delivered by the falling weight shall be midway between the bearers.

Concrete Foundations.

5. The metal anvil block shall be supported direct on a concrete or masonry foundation weighing not less than twenty-five tons and having an area of not less than one hundred square feet.

Guide to Falling Weight.

6. Guides shall be provided which shall permit of the weight falling freely.

Falling Weight.

7. The falling weight shall weigh 20 cwt. and shall be of iron with a steel striking face having a radius of five inches.

Height Gauge.

8. The height of the drop shall be clearly indicated, at intervals of one foot, on one of the guides, the zero point being taken at five and a half inches above the rail supports.

Automatic Release.

9. Automatic Release shall not be fitted.

PRINTED BY
WATERLOW & SONS LIMITED, 49, PARLIAMENT STREET,
WESTMINSTER, S.W. 1.